Missouri Botanical Garden

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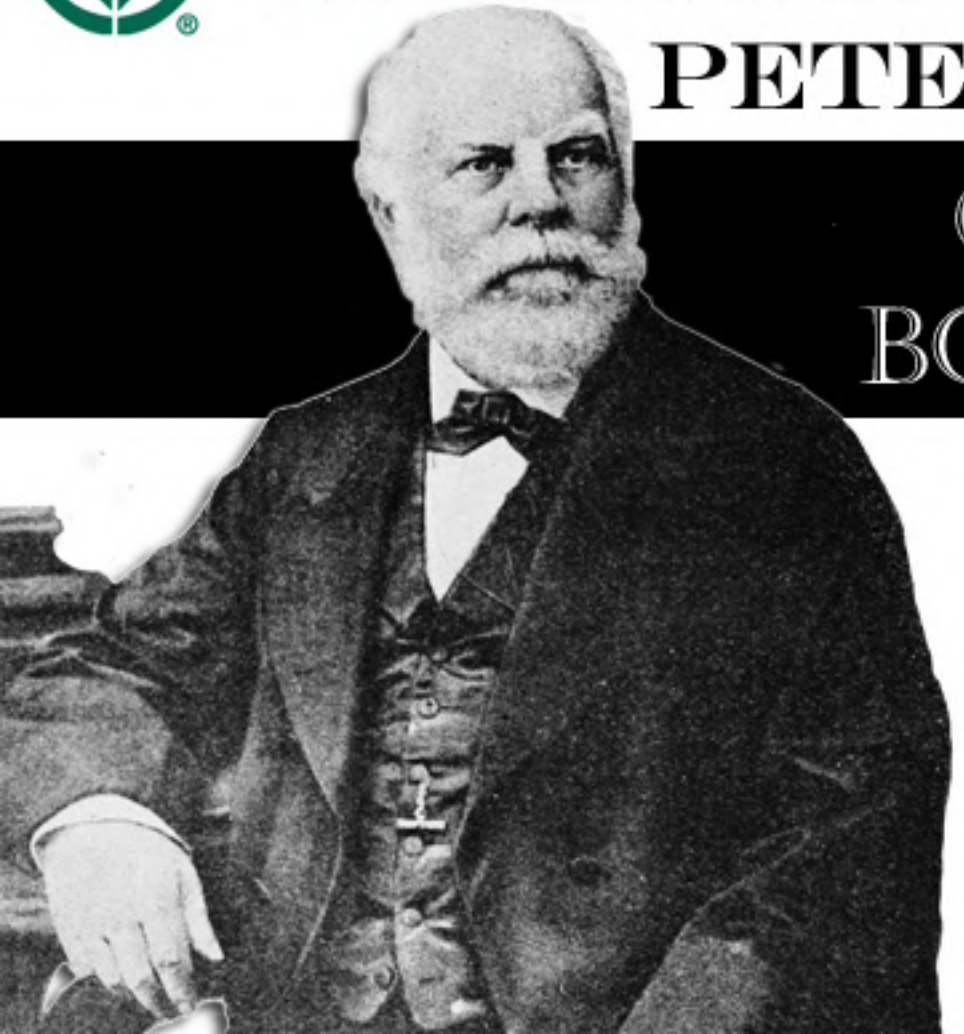


Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Length of seed of stipulate Euphorbiae

0.4 cymulifera – humistrata – maculata – densiflora

herniarioides –

0.5 unilatera –

0.5 Chapmanni – longipila – ovalifolia

stipulata – Chamaesyce – intermedia – dellioidea

0.6 Geyeri β. – cordifolia – revoluta – cinerascens – hypericifolia – notata

gracillima – angusta –

0.7 Greggii –

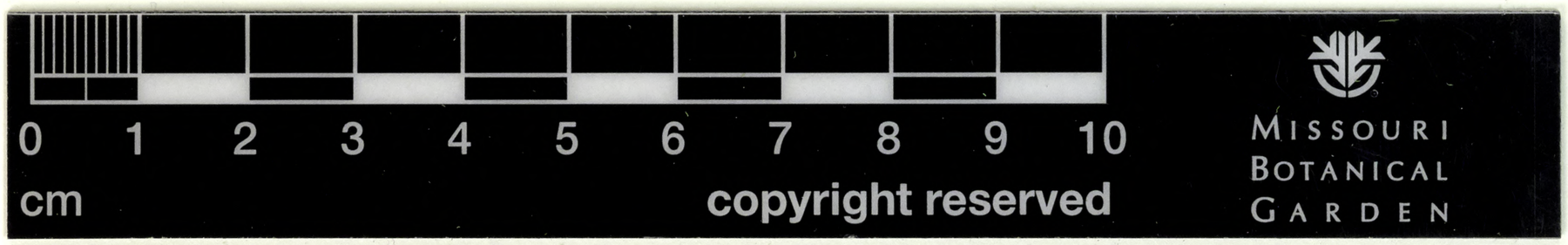
saxicola –

0.8 Geyeri α. β. – Fendleri – cinerea – rupicraga –

0.9

1.00 polygonifolia brevistipula

1.25 Peplis –



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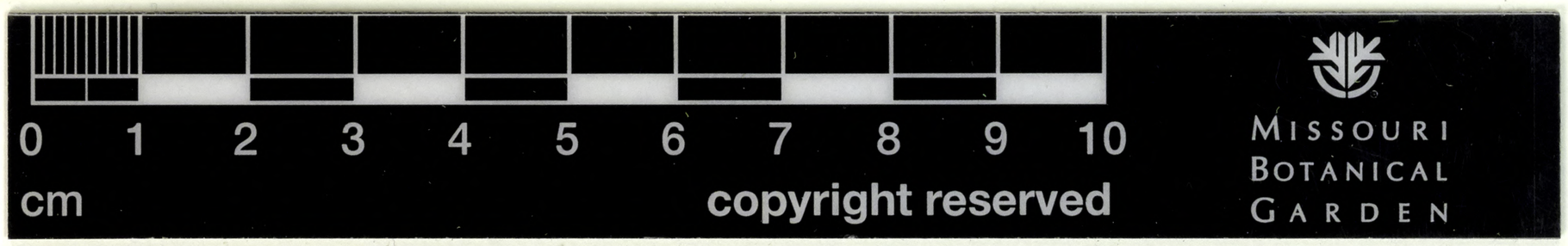

Semina Euphorbiarum stipulatarum octob 1848.

№ 7 and 6, *Polygonifolia* and *Peploides* are similar, both large, with rounded edges, and very smooth.

Next in size are 7. 18. 2. 8. 10. 17. (*Tenuei*, *saxicola*, *Geyeri*, *gracilima* and and *cinerea*.)

Third class, in size are 3. 21. 15. 26 19 11. 14 16 (*condylea*, *Chamaejce* *angusta*, *hyperici folia*, *Longifolia*, *Greggii*, *notata*) (*Arenarium*)

The smallest seeds have 13. 9. 5. 12. 24. 25. 22. 4. 20 – 23 (*unilateralis*, *stipulata*, *Chapmanni*, *intermedia*, *valida* *serpens* *hexagonoides* *hemistricta*, *maculata*)

The first class are 1 to 1,5 lines long, the 2d 0,9 – 0,7 lins, the 3d 0,7 – 0,6, the forth 0,6 to 0,4 lins long.

All the smooth seeded species have also the seeds rounded, angles obtuse or disappearing entirely. The only exception form 7. *E. Tenuei* which has acute angles; — and 5. *E. stipulata* which has also rather acute angles, and is besides characterized by the linear shape & red colour of seed. —

The seeds of 2, *Geyeri* and 8. *gracilima* are always more or less spotted, in 8 the spots are lightly impressed, so as to make the seed slightly uneven, — but there is another cause which makes it necessary to put it among the smooth seeded forms, it is rounded, almost without angles — all other with uneven surface have more or less sharp angled seeds. —

Attempt to arrange the ~~unarranged~~, according to the seeds.

I Seminibus levibus
- ✗ Sem obtusangulis 6. 1. 8. 2. 3. 4
- ✗✗ Sem. acutangulis
  - cinereis 7
  - nubellis 5

II. Seminibus asperis, nigris etc. omnibus acutangulis
- ✗ Sem tuberculato – sarcinatis 19. 12. 20
- ✗✗ Sem. punctato – foveolatis 10. 17. 16. 14. 15.
- ✗✗✗ Sem. transverse foveolato nigris
  - † cinereis v. nubellis 18. 21. 11. 15. 13. 24. 22 9. 25. 23
  - ~~Sem transverse foveolatis~~
  - †† nigrirantibus 26.

Ver

6740

According to the seed the following numbers can hardly be distinguished, and the others can not be confounded.

1. — 2 and 3 are similar, especially 2. B. but 2 is distinguished from 3 by the paler colour, the spatter and being more pointed

4 — 5 has some similarity with 4 but is longer, more linear, sharper angled and red. — 6 — 7. — 8 —

9, 11, 15, 22 and 24 resemble one another considerably, and it is doubtfull whether a good and characteristic difference can be found. 13 6 and 23 resembles them also but is shorter and broader. — 23 also but is much smaller — 13. a 14 is intermediate between the punctate and reticulate seeds — 14 resembles the 9 & 24 but is more distinctly punctate. — 10 has some similarity with 17, but this is distinguished by the narrower, less distinctly punctate — by the stronger curva- — 12 is intermediate size between 19 & 20, all three very distinct by the reticulate seeds; it resembles more 19 but is smaller all three are ovate roundish, but the curva- 12 & 19 is sharper than 20. —

16 & 17 have a good deal of resemblance, but 17 is twice as large as 16. — 18 is peculiar — 21 can not be confounded with any of the B is rather more sharp angled & pointed the 25 — 25 is very distinct by the strong & sharp wrinkles. — 26 by the black seeds

Recapitulation:

1.	18
2	21
3	25
4	26
5	
6	
7	
8	
9. 11. 15. 22. 24	
23. ~~12~~.	
13	
14 14	
10	
12	
19	
20	
16	
17	

9 near 15 but distinct

13 & 14 with two near?

15 and perhaps 15 also here

9

13. 14 (~~15~~ 7)

22 24.

23

25

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0 1 2 3 4 5 6 7 8 9 10
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Euphorbia deltoidea perennis? glabra glaucescens
postratis foliis oppositis deltoideo-triangularibus integris
basi truncatis v. subcordatis, petiolatis
stipulis subulatis, non comitis, subintegris
in disco mia ramulorum pedunculatis
v. terminalibus, pedunculis petiolos superantibus
involucra aequantibus, glandulis duabus transverse
ovatis (rubentibus); capsula glabra
seminibus ellipsoideo-globosis rubellis, obtuse angulatis, transversi
rugulosis

Allied to prior — the Northfork of the
Platte August 1843 Dr Marsh. — Leaves
similar to those of E. depressa
but more than twice as large and also with
sharper angles. — Apparently perennial.

Euphorbia oblongifolia annua pilis crispis pubescentibus
caulem prostratis foliis oppositis obovatis —
v. oblongis, obtusis, versus apicem
serrulatis, basi obliqua truncatis v. subcordatis, supra glabris, subtus
breviter petiolatis, stipulis
subulatis — pilosis, ciliatis
pedunculis pseudaxillaribus, singulis v.
plerumque in ramulo folioso glomeratis
pilosis; glandulis transverse
ovatis, capsula acutangula, pilosa
seminibus ellipsoideo-globosis rubellis obtuse angulatis,
transversi profunde rugulosis —

Collected by Nuttall near Bird's, Texas (Little
Blue or Red River (of Hale sub. nom.
E. rotundifolia Hk. Short) & August
near E. depressa, but seeds much larger, sharper angled
and deeply transverse rugose —

Euphorbia angustior Nuttalliana annua ramosa, glabra,
foliis oppositis, oblongo lanceolatis
obtusis, versus apicem serrulatis
basi maxime obliqua acutis v. semitruncatis
breviter petiolatis, stipulis subulatis — setaceis, subsimplicibus stipulis
involucris pseudaxillaribus, singulis in ramulis
foliosis glomeratis, glandulis magnis pallidis
emarginatis interstitialibus semiobovatis
ellipsoideo-globosis rubellis, obtuse angulatis, transversim foveolato-
rugulosis

Upper Missouri, near Fort Pierre, Dyer June 1839.
Seed similar in size and shape to that of E. deltoidea

d. Tragonthus from most other with similar seeds by its usual smoothness & by the leaves for deltoidea; * leaves frequently red spotted.

Euphorbia lateralis annua? prostrata? glabra, foliis oppositis ovato-oblongis obtusissimis versus apicem serrulatis basi maxime obliqua obtusis, petiolis brevibus lateralibus; stipulis subulatis setaceo multifidis; involucris in dichotomis ramorum pedunculatis, 2, 3 radiatis glomeratis glandulis marginatis petaloideo integris, ovato-oblongis acutangulis, basi valde obliqua.

Seeds oil on the Missouri near Fort Pierre. Sept, 1839

Very near the foregoing, but distinct by the seeds, which are more grey much smaller, but in proportion, Thicker, and more obtuse also by the broader leaves without spots. Varieties of the same plant? but the seeds are different!

Euphorbia peplis annua, prostrata glabra, foliis oppositis ovato-oblongis obtusissimis integris basi obliqua obtusis v. subcordatis; petiolis brevibus, stipulis ramulis setaceo multifidis pluries minus integris, pedunculis (pseudo-) axillaribus bifidis, pedunculis petiolis multo superantibus v. in ramulis foliosis glomeratis, glandulis petaloideo-marginatis (v. sine margine) semiovato oblongis obtuse angulatis, caeruleis.

Seeds oil on the Missouri near Fort Pierre. Sept, 1839

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I have collected seed on the Platte near Nebraska Creek (A. Nebraska) & at Short on St Louis, the Platte plant has a more glaucous appearance

x only by the larger seeds & narrower leaves for the following

perhaps a smooth E. depressa?

cinereis

by the caesio-viride stipules &

cinereo-viridis

0 1 2 3 4 5 6 7 8 9 10
cm
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small leaves and stipules less divided
but no other difference; A specimen
from the upper Missouri has a little larger
and more reddish seeds:—

Euphorbia corollifolia Ell annua puberula, glabra,
glauca, foliis oppositis ovato-oblongis,
obtusissimis, integris, basi obliqua sub-
cordatis, petiolis brevibus, stipulis
setaceo-multifidis, pedunculis petiolos
multo superantibus, in dichotomia nonnullos
pet glandulis petaloideis subbrevibus,
seminibus cinereis s. e cinereo-nebulis
obovatis obtuse angulatis, laevibus.

Lou.; near Texas; near the foregoing
but larger, petaloid glands white, conspicuous.
seeds more grey, much larger; involucres
D. Rotundifolia.

Euphorbia Geyeri annua puberulenta,
glabra, foliis oppositis ovato-oblongis,
obtusis s. retusis emarginatisve, mucronulatis,
basi obliqua acutis subrotundisve, petiolis
brevibus, stipulis setaceo-
multifidis, pedunculis petiolo aequantibus
pauciforis glomeratis glandulis involucri
petaloideis; capsulis undanguli semi-
cordatis (nibell) obovatis, obtuse angulatis
laevibus.

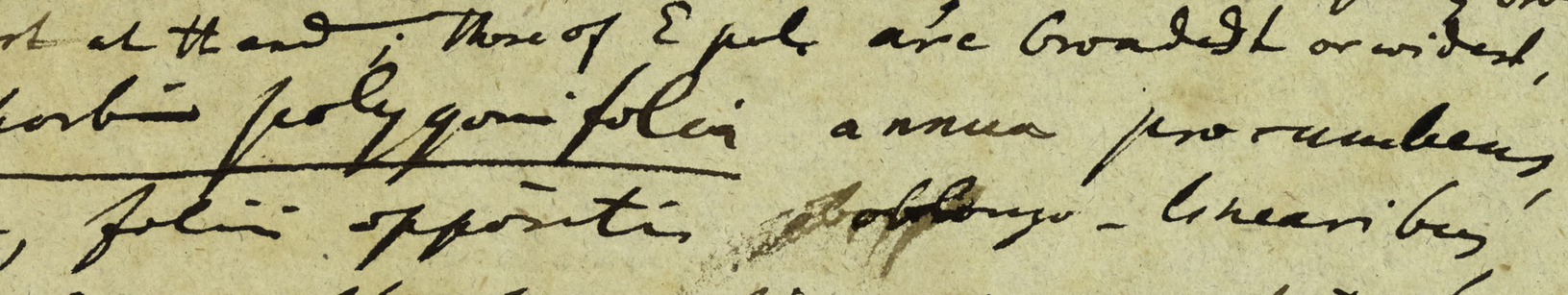
Braidstown Ill, in sandy soil, A Geyer. 1842

Near the following but distinguished by the
smaller seeds (about 1/10 of a line long) much
divided stipules, petaloid involucral glands
and obtuse or retuse leaves, which are equally broad
or broader at the end than those of E. peplus are broadest or widest, at base!

Euphorbia polygonifolia annua procumbens,
glabra, foliis oppositis obovato-oblongo-linearibus
obtusis s. obtusiusculis mucronulatis,
basi obliqua obtusis s. subrotundatis, petiolis
brevibus; stipulis e basi lata subulatis
subintegris s. plus minus bi setaceo fimbriatis

Allo. = Illinois = Nuttall collection for the Missouri
but stipules more divided E. peplus T. — no seeds

8/12
10/85



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s. fissis ; pedunculis petiolos aequalibus
; dichotomis ramulorum apice ; corymbulos dichotomos congestis,
glandulis nectareis spuriis ; stipulis
obtusangulis, semiovatis acuminatis rubellis,
obovatis obtuse angulatis brevibus.

Sandy seacoast from N York to N. Carolina
& Coast of Lake Erie. Leads more than
a Line long, by far the largest of any
of this Section. the procumbent Euphorbias

Euphorbia arenaria Nutt
glabra, foliis oppositis, oblongis,
subobtusis, conspicuè penninerviis, basi subobliquis, sessilibus
brevitèr petiolatis, stipulis e basi cuneata subulatis,
distinctis, rubris, integris ; pedunculis petiolos
longe superantibus ; dichotomiis ramulorum angulis
(non pseudoaxillaribus) ; glandulis nectareis
oppositis ovatis subacutis,
cornibus, magnis, plerumque 4 ;
seminibus obovato-subglobosis
subtiliter reticulato-rugulosis, caruncula
impresso-punctatis

Sandy plains, rocks near Industry,
Texas June-July ; — oft 6 feet
in circumference, & 2 or 2½ high —
habit of a very narrow leaved, E. hyssopi-
folia, but more slender in every
respect. Seeds as 7/10 of a line long

somewhat spotted, spots impressed

Euphorbia hyssopifolia annua Erecta glabriuscula
caulibus ramulisque plerumque pubescenti-
pilosis foliis sessilibus, oblongis, s. oblongo-
lanceolatis, obtusis, basi obliqua
obtusis s. subcordatis, crenatis, crenato-serratis,
e basi cuneata subulatis, ciliatis, subtus costa
denticulis ; pedunculis petiolos superantibus
; dichotomiis ramulorum angulis et ad ramulo-
rum apices ; corymbulos dichotomos congestis,
glandulis, involucri plerumque 4 ; margine petaloideo
Euphorbia

Wrgh 1853 is transitional to polygamy

Micronesia WR

Mr. Robertson Coe Colonel
March 76

Dr. Geo. Engelmann, Esq

201 S. 5th Street

St. Louis

Mo.

JAN 1 1854 1 A.M.

1875

Dec

441 = Lunch

6742

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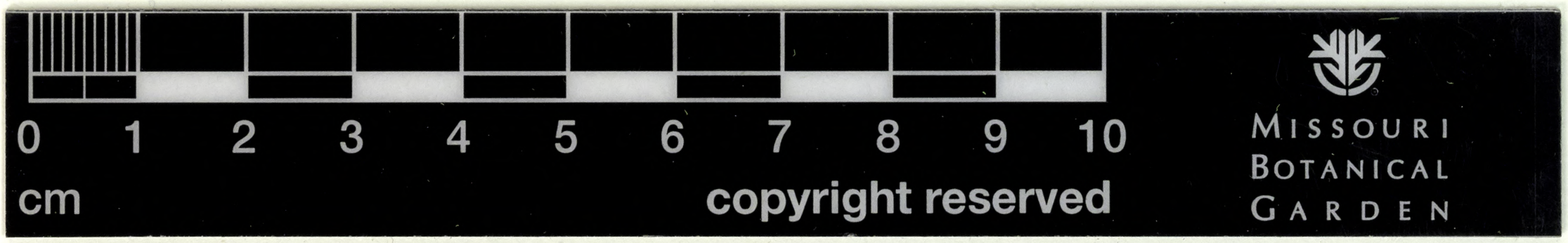


×4

Tetracoccus

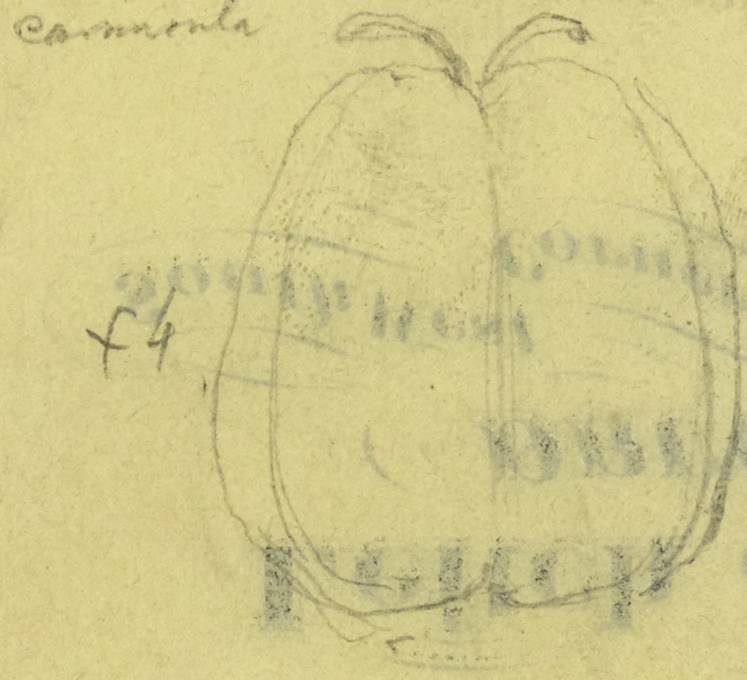
April 22 1883

Perry San Diego

Red smooth, brownish

Keeled on ventral side

no commula



f4

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South West Corner Fifth and Market Streets.

Leitch & Cortlies

DRUGGISTS

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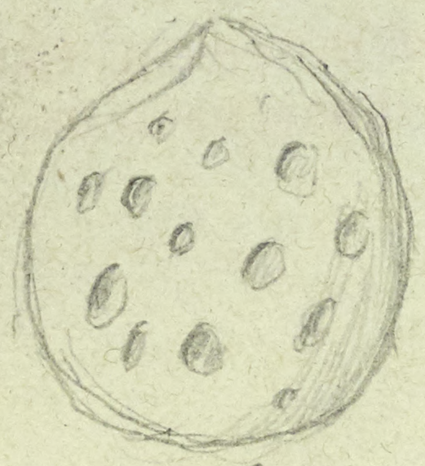
Euph. marginatoides
Humboldt Bldn & Kunth

Dec 5 1882

x10



semina obscure
globosa, obscurius
scrobiculata

lobi quadrati
carinati

capsula dimera
glabrata

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Leitch & Corlies

DRUGGISTS

South-west Corner Fifth and Market Streets

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9744

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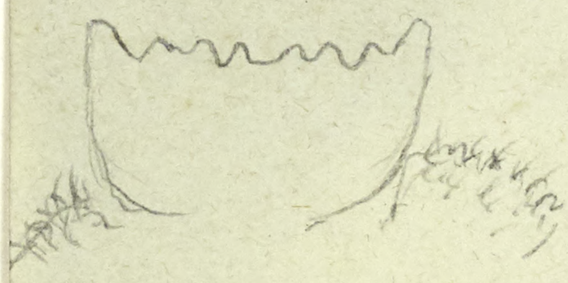
Cupulate

Jan 3 1883

San Bernardino Mts 4000 – 7000 feet alt

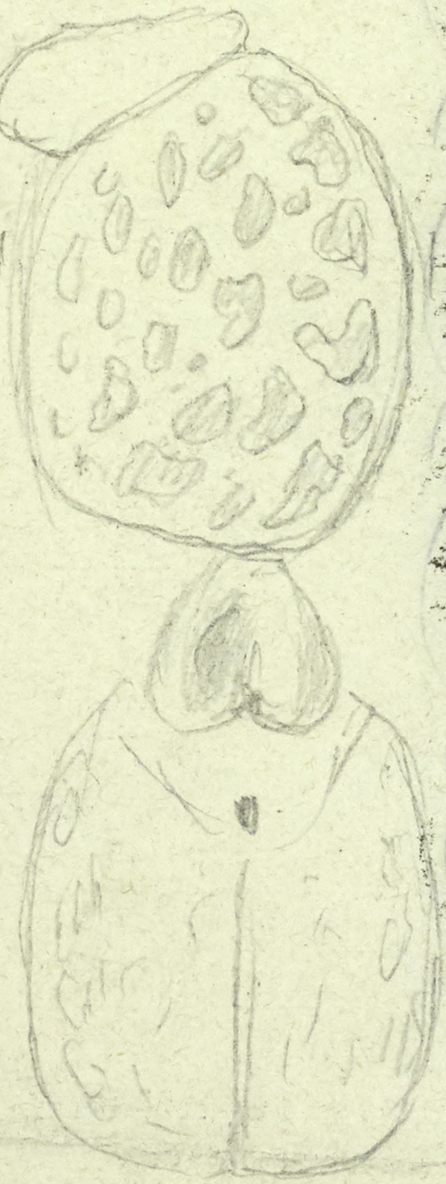
Parish 1882

×10



×10

×10



Xly

bracts orbicular
slightly contracted
at base, not at
all cordate, nor
broader than long.
glandulous

upper part
fully 3 times long

Cupule large
cordate, concave

scarcely any spots on the
ventral side.

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Smith & Orlick
DRUGGISTS
Corner Fifth and Market Streets
Quincy Illinois

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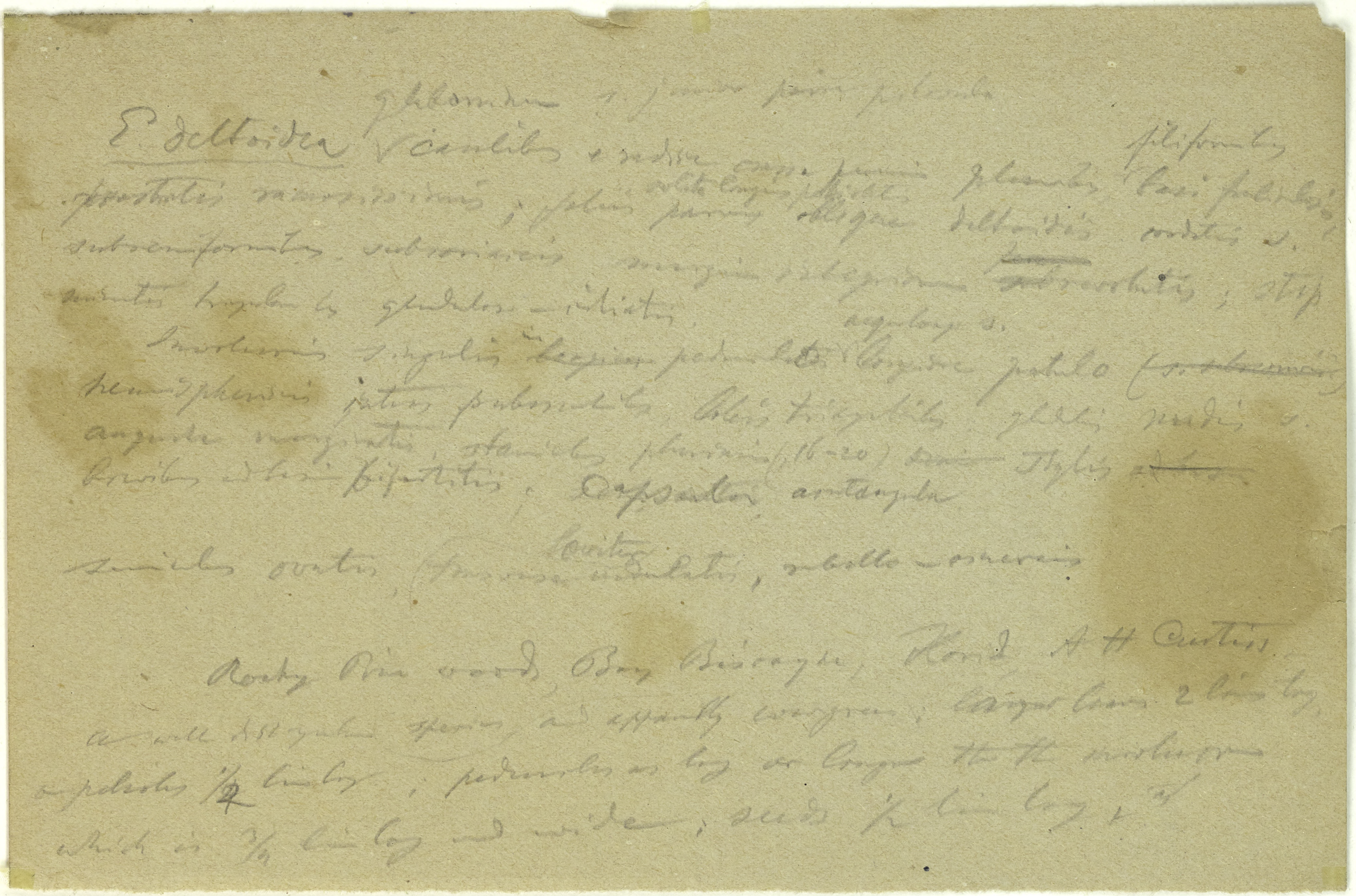

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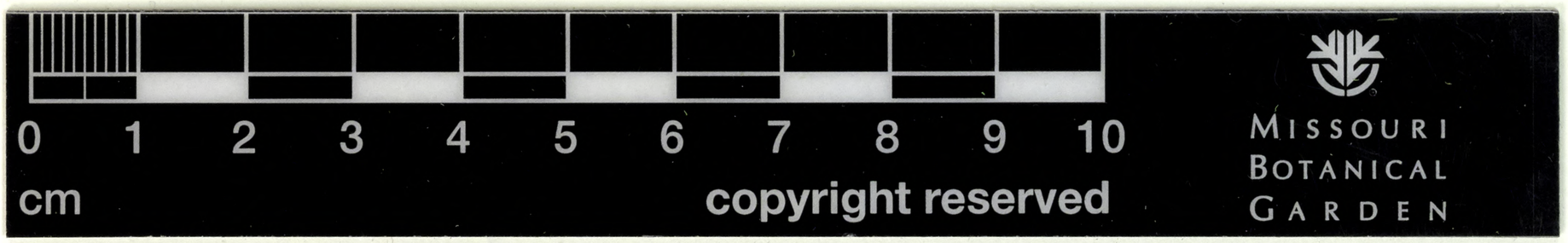
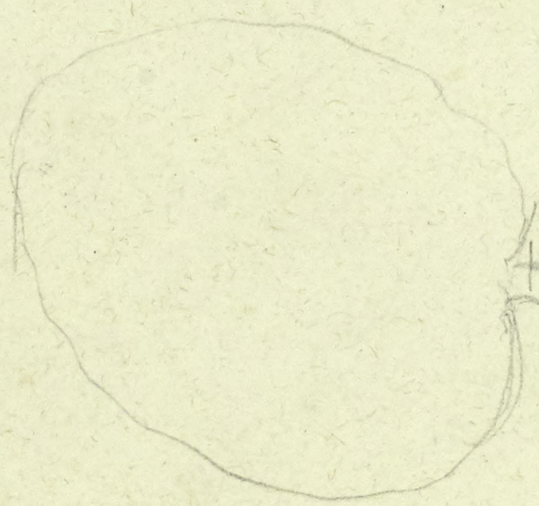


Euphorbia (occulta var?) leucosperma
warm Springs, Mohave Desert
June 25 1882
No 1384
Davis May 1882

×10

seeds 1.3 mm long
sharp angled
ash gray

involucre 1.5 mm long deeply
campanulate, with broad ovate
obtuse ciliate lobes — 4
small, stipitate appendaged
glands connate —
styles erect, short



×10

capsule 3 — 4 mm long
tuberculate, ovate triple
obtuse, glabrous

dehisced
stipules opposed

mature
stipules opposed

connate stipules
of Cowardia

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Alex. Leitch.

APOTHECARY & CHEMIST.

Cor. 4th & Olive Sts. St. Louis.

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